

1 ITERATIVE MMSE EQUALIZATION-DECODER SOFT
2 INFORMATION EXCHANGE DECODING METHOD AND DEVICE

3 ABSTRACT OF THE DISCLOSURE

4 A method and device employing an iterative MMSE equalization-decoder soft
5 information exchange decoding. The method uses a MMSE equalizer which receives and
6 outputs soft information. The equalizer exchanges soft information with a soft input soft
7 output decoder, preferably an error correction decoder. The nature of the equalizer permits
8 solutions beyond one-dimensional data streams and permits solutions for long channel
9 lengths and multi-dimensional data since the solution is not a function of the channel impulse
10 response.

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